Claims

- 1. A light device, comprising:
- a flash lamp for generating high intensity ultraviolet light adapted for placement inside a body.
 - 2. The device of claim 1 wherein the flash lamp is a xenon flash lamp.
 - 3. The device of claim 1 further comprising a substantially transparent housing.
- 4. The device of claim 3 wherein the housing includes a lenticular pattern on a surface of the housing to focus or diffuse light generated by the flash lamp.
 - 5. The device of claim 4 wherein the lenticular pattern is a fresnel pattern.
- 6. The device of claim 1 further comprising an transformer in electrical communication with the flash lamp.
- 7. The device of claim 1 further comprising an interventional device, wherein the flash lamp is disposed near a distal end of the interventional device.
- 8. The device of claim 7 wherein the interventional device is a balloon catheter and the flash lamp is disposed inside a balloon portion of the catheter.
- 9. The device of claim 8 wherein the balloon catheter has a lumen for transporting a fluid to the balloon portion.
- 10. The device of claim 9 wherein the balloon catheter has an aperture at distal end of the catheter for removing the fluid.

- 11. The device of claim 7 wherein the interventional device has a sliding stop disposed at a proximal end of the intervention device for controlling depth of insertion of the interventional device.
- 12. The device of claim 7 wherein the interventional device has a filter disposed near the distal end of the interventional device for attenuating non-ultraviolet light generated by the flash lamp.
- 13. The device of claim 7 further comprising a control unit in communication with the flash lamp.
 - 14. A method for illuminating tissue, comprising:

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- a) providing a light device comprising a flash lamp;
- b) inserting the light device inside a body near tissue to be illuminated;
- c) energizing the light device to generate high intensity ultraviolet light; and
- d) illuminating the tissue by applying the generated light to the tissue.
- 15. The method of claim 14 wherein illuminating the tissue comprises ablating a mucosal lining of an esophagus.
- The method of claim 14 wherein illuminating the tissue comprises ablating a mucosal lining of a throat.
- 17. The method of claim 14 wherein illuminating the tissue comprises ablating a mucosal lining of an intestine.
- 18. The method of claim 14 wherein illuminating the tissue comprises ablating a mucosal lining of a colon.

- 19. The method of claim 14 wherein illuminating the tissue comprises ablating an endothelial lining of a uterus.
- The method of claim 14 wherein illuminating the tissue comprises ablating an endothelial lining of a urethra.
- 21. The method of claim 14 wherein illuminating the tissue comprises ablating an endothelial liping of a bladder.
- 22. The method of claim 14 wherein illuminating the tissue comprises ablating an endothelial lining of an organ.
- 23. The method of claim 14 wherein illuminating the tissue comprises ablating an endothelial lining of a duct.
- 24. The method of claim 14 wherein illuminating the tissue comprises ablating an endothelial lining of a vessel.
- 25. The method of claim 14 further comprising disposing the light device at a distal end of an interventional device and inserting the interventional device inside a body near tissue to be illuminated.
- 26. The method of claim 25 further comprising transporting a fluid to the light device to dissipate heat generated by the light device.
- The method of claim 14 further comprising characterizing the tissue by transporting a dye to the tissue to stain the tissue and wherein illuminating the tissue comprises ablating the tissue using light absorbed by the stained tissue.

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